

ARMED FORCES INSTITUTE OF PATHOLOGY

ANNUAL REPORT

1994

ARMED FORCES INSTITUTE OF PATHOLOGY
WASHINGTON, D.C.





NATIONAL MUSEUM OF HEALTH AND MEDICINE, AFIP

Marc S. Micozzi, M.D., Ph.D.
Director

OFFICE OF THE DIRECTOR

MISSION/ORGANIZATION

The Office of the Director oversees the general activities and governance of the Museum and provides policy, medical, and scientific direction. This office also directs all planning activities for the site, facility, and programs of the new museum that is planned for the National Mall. Activities handled within the office are external relations, governmental affairs, press and public relations, and institutional development. The office works with print and broadcast media, congressional offices, and local, national, and community organizations to encourage contact and coverage of AFIP's National Museum of Health and Medicine. We seek to emphasize the Museum's focus on critical public health issues, the importance of the Museum as a bridge between biomedicine and the general public, the Museum's role in helping to recruit the health professionals of tomorrow, and the Museum's research programs in medical history, medical anthropology, the epidemiology of chronic disease, human diet and nutrition, art in medicine, and other areas. The office provides general supervision to the Division of Operations and Programs and the Division of Research and Development. The Office of the Director communicates and coordinates with the American Registry of Pathology (PL 94-361) and the National Museum of Health and Medicine Foundation (PL 103-337) for institutional development.

STAFF

Marc S. Micozzi, M.D., Ph.D., Director
Mark Dunham, B.A., External Affairs Officer (Foundation)
Dick Levinson, M.A.T., Community Relations Specialist
Theresa Strong-Johnson, Secretary
Lori Piccolo, B.A., Development Officer (Foundation)
Elizabeth Videnieks, B.A., Planning Specialist (Foundation)

INSTITUTIONAL DEVELOPMENT

National Museum of Health and Medicine Foundation: Legislation designating a site "on or near the national mall" for a new public education and exhibition facility for the National Museum of Health and Medicine passed Congress and was signed into law on October 6, 1994, as Public Law 103-337. The legislation includes a Sense of the Congress resolution, which acknowledges the public-private partnership working to make the new facility a reality and encourages the American public to support its work. An environmental assessment on the preferred site—land to the east of the Hubert Humphrey Building at the foot of Capitol Hill—was begun. The environmental assessment, which should be completed in mid-1995, will examine the environmental impact at the preferred site as well as several alternate sites that are within the parameters established by P.L. 103-337.

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With funding from the Kellogg Company that is part of a larger \$1-million pledge made in 1993, the foundation contracted for revision and expansion of the exhibit master plan for the new facility, as well as development of discussion documents for nutrition programs at the new facility. Under contract to the Public Health Service, foundation staff developed a survey instrument, budget, and list of recipients for a nationwide survey of public health and health education exhibits and programs in museums and related institutions.

Communication and cooperation between and among the foundation, the Department of Defense, and the Department of Health and Human Services continued, with periodic leadership and staff meetings as well as shared financial support for planning activities. Foundation staff grew during the year. Trustees hired two new employees: a development officer and an external affairs officer. In addition, the foundation selected its planning specialist as its administrator and retained the services of a senior development consultant.

Site Designation Event: On 13 May 1994, the National Museum of Health and Medicine Foundation sponsored a public event adjacent to the headquarters of HHS to mark the recent introduction of legislation designed to reserve a mall site as the future home of the Museum. A second reason for the event was to highlight a \$1-million pledge from the Kellogg Company to support both a major food and nutrition gallery in the new museum and a national nutrition education program. Kellogg also promised to launch a major corporate fund-raising effort to raise an additional \$4 million for these purposes. Promotional support for this event included conceiving a press kit for this event and coordinating letters of support from officials at the Smithsonian Institution, the U.S. Botanical Garden, and the Association of Science-Technology Centers. Participants at the event were Senator Mark Hatfield (R-Oregon); Delegate Eleanor Holmes Norton (D-D.C.); the Assistant Secretary of Defense for Health Affairs, Steven C. Joseph, M.D.; the Assistant Secretary of Health for the Department of Health and Human Services, Philip R. Lee, M.D.; the Chief Executive Officer of the Kellogg Company, Arnold Langbo; the Chairman of the National Museum of Health and Medicine Foundation, C. Everett Koop, M.D.; and the Museum Director Marc Micozzi, M.D., Ph.D.

Publications/Speeches: During 1994, the Museum Director continued to expand professional and public awareness of alternative and complementary medical practices. He was appointed series editor for *Alternative and Complementary Health Systems* for Churchill-Livingstone Publishers (New York/London), and founded the *Journal of Alternative and Complementary Medicine: Research, Paradigm, Practice and Policy*, where he serves as its editor-in-chief.

On 9 February 1994, Dr. Micozzi introduced Dr. Melvin Konner of Emory University at an event sponsored by the Philadelphia College of Physicians. A column by C. Everett Koop, M.D., chairman of the NMHM Foundation, appeared in the September issue of *CPB Today*, the newsletter of the Corporation for Public Broadcasting. An article about the Museum by Mr. Levinson for *CAP Today*, the publication of the College of American Pathology, was published in December 1994.

Cancer Study: During January 1994, staff worked with the Department of Energy's Pacific Northwest Laboratory to promote a new scientific study linking moderate elevations in individual body iron to an increased risk of cancer. This study, which was published in the *International Journal of Cancer*, included the Museum's Director and a scientist at the Pacific Northwest Laboratory among its coauthors. The Museum shared responsibility for the promotional effort and stories that were broadcast or published by *CBS Radio*, *NBC Radio*, *Standard News*, 100 NPR affiliates, and the *Associated Press*.

COMMUNITY AND PUBLIC RELATIONS

John Wilkes Booth Investigation: In October of 1994, the continuing effort to exhume the remains of the man believed to be John Wilkes Booth began moving forward again. While it was clear that this effort would generate significant media coverage, the challenge was to manage the story so that the Museum's involvement would be depicted in a positive way. By emphasizing our

role as an independent scientific resource and resisting the temptation to seek headlines, this effort succeeded. Positive, appropriate stories about the Museum's involvement appeared on/in *Good Morning America*, the *BBC*, *Reuter's*, *The Washington Post*, and the *Baltimore Sun*.

The Charlene Drew Jarvis Science Awards: The fifth annual presentation of the Charlene Drew Jarvis Science Awards took place in June. This program recognizes talented science and math students at all levels of the District of Columbia's public schools. This program, sponsored by the NMHM Foundation, is held in the Museum each year to enable these young people to explore career possibilities in the health sciences.

Associated Press Feature Article: During June 1994, staff worked closely with Lauran Neergaard of the Associated Press in the preparation of a feature article on the development of the new Museum facility. Neergaard's story, which emphasized the Museum's commitment to public education, appeared in the *Los Angeles Times* and hundreds of other papers from coast to coast on 23 June 1994. Among those who saw the story was Bill Hendrick, a science reporter for the *Atlanta Journal and Constitution*, who prepared his own profile of the Museum, which appeared 10 September 1994. The Hendrick story was then picked up by *The Washington Times*, which reprinted it on 21 September 1994.

WGMS-FM: This metropolitan Washington classical music station constitutes an important audience for the Museum because its listeners are consistent with the profiles of those who frequently visit and support museums. The station also produces "Health Exchange," a weekly program that focuses on health and medical issues. The Museum was the focus of two of these shows in December 1994; two more segments are planned for 1995.

Film Program: On December 2, 1994, the Museum launched a public film series by showing two classic public health films from the 1940s: "Know For Sure" and "Fight Syphilis." Commentary on these films was offered by Dr. Cynthia Fuchs, a professor at George Mason University. Bob Mondello of National Public Radio broadcast an advance review of these films on All Things Considered. In addition, Mondello promoted the films on the local PBS TV series Around Town and wrote about them in *City Paper*. *The Washington Post* published brief items about these film in "Film Notes" and "Health." Radio stations WTOP and WGMS broadcast PSAs promoting this program.

Media Relations: Among the journalists, broadcasters, free-lance writers, and critics assisted by this office in 1994 were: Robert Erlandson and Mike Klingaman of the *Baltimore Sun*, Guy Gugliotta and Don Oberdorfer of *The Washington Post*, Cesar Soriano of *The Washington Times*, Jennifer Senior of *The Hill*, Steve Grant of the *Hartford Courant*, Jim O'Neill of the *Providence Journal Bulletin*, Richard Stone of *Science*, Rhoda Behr of *Regardie's Magazine*, Bob Mondello of National Public Radio, Sandy Wurz of Fisher Broadcasting, Mary Otto of Knight-Ridder Newspapers, Jeanie Wright of the *Los Angeles Times*, Roger Mellen of WJLA-TV, Janice Graham of *Working Mother*, Alissa Bender of WPHL-TV, Rob Martin of America's Talking Network, Bill Hendrick of the *Atlanta Journal & Constitution*, Donya Currie of the *Gainesville Sun*, Steve Holland of *Reuters*, Bill Douthitt of *National Geographic*, Judy Brown of *Your Health*, Coji Shimura of TV Asahi, Scott McCartney of *The Wall Street Journal*, Jessica Hartman of Voice of America, Bill Rice of *City Paper*, Joel Keehn of *Consumer Reports on Health*, John Lally of *Access Magazine*, Rosa Bautista of the *Miami Herald*, Beth Engler of the Public Radio Health Show, Sara Bancroft of Standard News, independent journalist Larry Thompson and Frank Teltsch of CBS Radio.

PRESENTATIONS

1. 9 February, opening remarks and session moderator, Nathan Hatfield Memorial Lecture, College of Physicians of Philadelphia, MS Micozzi.
2. June, Annual Forensic Anthropology Course (Armed Forces Institute of Pathology), Washington, D.C., MS Micozzi (codirector and lecturer).

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General Attendance	31,389
Tours	7,099
Special Events	11,853
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TOTAL	44,346

Docent training: Volunteers donated a total of 3,276 hours of service to the Museum in 1994. These services are an important component of the Museum's operational activities and consist of docent tours to the public, collections cataloging and research, and general clerical assistance.

Handouts: Several brochures were issued in conjunction with the interpretive activities at the Museum. A full-color, descriptive brochure was distributed in conjunction with the temporary exhibition on Ellis Island.

Staff also developed a brochure outlining the different school programs available at the Museum. Seven hundred of these were distributed to local schools in the autumn and, in conjunction with the teachers' open house, has resulted in increased scheduling.

The Museum continued to develop both temporary and long-term exhibition projects during 1994.

attention to the Museum and its holdings. The current installation focuses on "Twentieth-Century Military Medicine" and includes discussions of tropical medicine, yellow fever and Walter Reed, typhus in the World Wars, epidemic hemorrhagic fever (Korea), and the field epidemiologic survey team (Vietnam), as well as the critical role of Dr. Crawford Gorgas.

A 2-year contract was begun through FedSyms to provide maintenance and consultation on the numerous interactive programs currently operating in the galleries. It is hoped that this contract will assist the Museum in providing effective activities to visitors as it continues to explore new technologies.

A special team of staff members was appointed to oversee the renovation of the Museum's long-term exhibition, "Living in a World with AIDS." The exhibition closed to the public in July, and it is scheduled to reopen in 1995. The revisions include a complete redesign of the cases and exhibit layout to incorporate two interactive computer programs, a new video theater, and complete handicapped access. Artifacts for the installation will reflect the significant additions to the Museum's holdings on this disease, as well as new sections discussing drug development and alternative medical theories of AIDS treatments. Funding for this effort has been provided by the Centers for Disease Control and Prevention through the National AIDS Exhibit Consortium.

PUBLIC PROGRAMS

This year saw the appointment of a new Public Programs coordinator, Kathryn Foat. During her first year, Ms. Foat chaired a new committee to assist in formulating and evaluating public programs at the Museum. Mailing lists were updated and several brochures were distributed to potential visitors. The Museum offered a range of programs to the public and is evaluating audience responses to help chart plans for future programs.

Exhibition Lecture/Book Signing: in conjunction with the temporary exhibition on Ellis Island, the Museum sponsored a special lecture by Dr. Alan Kraut, professor of history at American University. Dr. Kraut's slide lecture was entitled "Inspecting the Immigrant: Voices from Ellis Island," and explored the questions asked about immigration by government policy makers, physicians, and the general public. Following the presentation, the author signed his recently published book, *Silent Travelers: Germs, Genes, and The "Immigrant Menace,"* for interested visitors.

Smithsonian Resident Associates Program: The Museum continued its joint programming of public events with the Smithsonian Institution with two presentations on 28-29 October by Mr. Sledzik and Ms. Willcox of a special program, entitled "Mummies and Vampires." This program illustrated how myths and folklore are informing anthropologists and doctors currently practicing in traditional or Third World settings. Mr. Sledzik spoke on his research on vampire folklore in New England, and Ms. Willcox reviewed recent research on diseases in ancient Egypt.

Public Health Films: On 2 December, the Museum offered a program consisting of two 1940s public health films on syphilis from the collections. The films, "Know For Sure" and "Fight Syphilis," were shown in their original 16mm format and were introduced by Dr. Cynthia Fuchs, assistant professor of English at George Mason University. Dr. Fuchs led a lively discussion exploring the presentation of culture, ethnicity, and gender in these films and, to mark World AIDS Day, Dr. Fuchs related these historical public health educational efforts to current education efforts about HIV and AIDS.

SPECIAL EVENTS

Peer Education: During the summer viewing of the temporary exhibition "What About AIDS?," the Museum initiated a collaborative project with the Metropolitan District of Columbia TeenAIDS Network to provide peer education opportunities to visitors in the gallery. Nine youth were present in the gallery to pass out literature, to orient the visitors to the layout of the exhibition,

and to answer questions. The volunteers were Tara Colton, Alexandria Fielding, Deborah Roseman, Annina Ruest, Nameeta Sahni, Daniel Tobeka, Jessica Wright, K. C. Swope, and Maria Conha. Kevin Mischka was the staff representative from the TeenAIDS Network. Discussions have begun to pursue the possibility of continuing this relationship with the Museum's new long-term installation on AIDS scheduled to open next year.

Community Outreach: Several staff members participated as judges in the annual science fair held at the Takoma Park Middle School. This was in support of the Institute's program of providing mentoring assistance to that community school.

Museum staff and docents participated in several health promotion efforts during the year. These included the "Heart Fair" sponsored by the American Heart Association (18 February) and health fairs sponsored by the AFIP/ARP (16 September) and the Girls Scouts of Montgomery County (11 December).

Through the year, Museum staff provided facility support to numerous departments within AFIP and WRAMC, as well as the Walter Reed Wandervoel. Russell Auditorium was the site of a special lecture on the medical examiner system in Great Britain by a forensic pathologist from Scotland Yard, sponsored by OAFME. The Museum also served as the location for the 27th International Volkssport, sponsored by the WRAMC chapter, on 10-11 September.

Receptions: A special reception was held at the Museum on 28 April, in conjunction with the exhibition on Ellis Island. A slide presentation was made by Dr. Fitzhugh Mullen, vice admiral of the Public Health Service (PHS), on the history of health assessments made of immigrants by PHS staff at the turn of the 20th century. This event brought together senior staff from the Institute, the Office of Health Affairs (DoD), the Public Health Service, and the Smithsonian Institution. A special dinner was sponsored by the NMHM Foundation.

To promote greater awareness of the Museum's educational activities, an open house for local school teachers was held on 13 September. Representatives from school districts in each of the metropolitan counties surrounding the Museum attended the event. Gallery tours were given; a cart of plastinated specimens was made available for examination; and teachers had an opportunity to discuss their special curriculum requirements with the staff.

The Museum continued to serve as the focal point for Institute-wide activities during the year. In June, the Museum was the site for the annual Ash Lecture, delivered this year by MG Ronald Blanck (WRAMC). General Blanck spoke on the topic of the Gulf War Syndrome. The annual holiday party for the Institute's staff was held in the galleries in December.

PROFESSIONAL ACTIVITIES

Professional Service and Development: The division's staff provided numerous professional services during the year. The Museum was selected by the National AIDS Exhibit Consortium to organize the second annual workshop for those institutions participating in the tour of the traveling exhibition "What About AIDS?" The Museum cosponsored the workshop with the Association for Science-Technology Centers, with Mr. Goler serving as course director. The workshop was held at Sci-Works, a science center at Winston-Salem, North Carolina, on 4-6 November, and was attended by representatives from organizations around the country. The workshop provided an opportunity to share the experiences from institutions that had already brought the exhibit to their communities with those who were preparing for the exhibit. Proceedings from the 1993 workshop, which had been organized by NMHM, were distributed to participants and to the members of the consortium.

Mr. Goler was invited to speak at the Francis Wood Institute (College of Physicians of Philadelphia) and at the annual meeting of the Public Health Service Professional Association. He sat on the program committees for the annual meeting of the Mid-Atlantic Association of Museums and the annual Conference of Washington Area History sponsored by the Historical Society of Wash-

ington. Mr. Goler also served as a reviewer for the Institute of Museum Services and the National Endowment for the Humanities, as well as providing consultations to The Adirondack Museum (Blue Mountain Lake, N.Y.), the South Street Seaport Museum (New York, N.Y.), and the Virginia Historical Society (Richmond, Va.).

Staff members represented the Museum at annual meetings of the American Association of Museums, the American Association for the History of Medicine, and the Mid-Atlantic Association of Museums. Staff were active in local professional groups, including the Material Culture Symposium (Smithsonian Institution), the Mid-Atlantic Computer Network, the Museum Education Roundtable, and the Washington Society for the History of Medicine, as well as programs offered by the National Library of Medicine and the Office of the Historian, Public Health Service.

PRESENTATIONS

1. March 31, 1994: "Pickle Jars in the Gallery: Two Centuries of Anatomical Exhibitions in America," Francis Wood Institute, College of Physicians of Philadelphia (Philadelphia, Pa.), Robert I. Goler.
2. April 6, 1994: "A Museum for the Future: The National Museum of Health and Medicine and the Public Health Service," Annual Meeting of the Public Health Service Professional Association (Baltimore, Md.), Robert I. Goler.
3. November 4-6, 1994: "Interpreting AIDS in the Museum Setting," Museum Educators' Workshop (Winston-Salem, N.C.), Robert I. Goler.
4. November 15, 1994: "Attracting Visitors to Off-the-Mall Museums," Annual Meeting of the Mid-Atlantic Association of Museums (Washington, D.C.), Robert I. Goler.

PUBLICATIONS

1. Goler R, ed., 'What About AIDS?' In: Workshop Proceedings. Dondero L, Lorton L, compilers. Washington, DC; 1994.

COLLECTIONS MANAGEMENT BRANCH

MISSION/ORGANIZATION

The mission of the Collections Management Branch is to manage, document, and make available for research the anatomical, historical, and pathological collections of the NMHM/AFIP. The Collections Management Branch comprises three sections: Anatomical Collections, Historical Collections, and the Office of the Registrar. The Anatomical Collection also maintains the Plastination Laboratory.

STAFF

- Paul S. Sledzik, M.S., Curator, Anatomical Collections
- Anthony B. Falsetti, Ph.D., Human Biologist
- Alan Hawk, B.A., Collections Manager, Historical Collections
- (D) Yvette LeGrande, B.S., Plastination Technician
- Donna Scorzelli Quist, B.A., Collections Technician (Registrar)
- Allison Webb Willcox, B.A., Collections Manager, Anatomical Collections

Volunteers:

Matthew Ake, Natae Nash, Sol Pargament, Markus Ring.

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Inventory and Cataloging: The computerized inventory of historical artifacts stored at the Institute's main facility and the Gaithersburg warehouse, as well as those items currently in exhibit or loan, now includes 13,346 artifacts. This figure is believed to reflect approximately 98% of Historical Collections. The inventory includes listings of each artifact's catalog number, accession number, classification based on Medical Subject Headings (MESH), object name, and location.

Work continued on the Civil War Skeletal Collection computer catalog, and nearly 90% of the collection is now cataloged. The first stage of unpacking of the Blackburn Neuropathology Collection and the Lindenberg Forensic Neuropathology Collection took place at the Gaithersburg facility this year.

Acquisitions: The three collecting divisions of the NMHM acquired 38 groups of objects in 1994. A total of 411 artifacts were donated to Historical Collections in 1994. Significant contributions included four ultramicrotomes dating from the 1950s to the 1970s; the first electromyograph machine made by James Golseth, founder of electromyography; and three uniforms belonging to members of the Cadet Nurse Corps, an organization sponsored by the U.S. Public Health Service to train nurses during the Second World War. Former members of the Corps celebrated the 50th anniversary of its founding in 1994.

Individuals donating materials to the Museum included: Michael J. Adams, Sharon Anderson, Deborah Baskin, Dr. Beamer, Dr. Edward A. Beeman, Dr. Albert M. Benshoff, Rebecca Bradley, LTC A. R. Brown, Mary Lou Calloway, Yvonne Carson, Ramona Cheasebor, Robertine E. Davis (Ret), Dr. Klaus Dehliner, James Federline, Dr. Frank Fromowitz, Robert I. Goler, Dr. James G. Golseth, Dr. Eugene Guthrie, Thomas Hagman, Alan Hawk, Cathy Hunter, David Kahn, Ruth Kulstad, Dr. Bernard Laps, Dr. Dale N. Lawrence, COL Lefkowitz, Dr. Gordon Letterman, Liz Lockett, Wendy Miller, Robert Montgomery, Donna Munoz, Raymond Osborne, Ja Neoda Jean Prochaska, Donna Quist, Dr. Edward Rea, Michael Rhode, Markus Ring, Peter F. Schaefer, Katherine Swift, Dr. John C. Trakas, and Dr. Edward J. Zimmerman.

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Medical School, Female Health Company, National AIDS Exhibit Consortium, Carl Vogel Center, De Puy Company, National Library of Medicine, U.S. Army Medical Material Development Activity, WRAMC Public Affairs Division, WRAMC-TV, and Yale University.

Loans: In 1994, loans were made to The Cleveland Health Education Museum, The Franklin Institute of Science (Philadelphia, Pa.), the National Museum of American History (Smithsonian Institution), and the San Diego Museum of Man. No new historical artifacts were loaned to other institutions in 1994; however, 35 artifacts remain on loan from previous years. Negotiations are presently underway with the Smithsonian Institution Traveling Exhibition Service to support a traveling exhibit on the history of drug abuse, entitled "Altered States: Alcohol and Other Drugs in America."

Repatriation of Collections to Native Americans: Under Public Law 101-601, the Native American Graves Protection and Repatriation Act, all federally funded museums were required to inform each tribe of related objects of cultural patrimony, burial artifacts, and religious objects by November 1993. The Museum collections contain 43 objects of Native American origin, of which 8 are believed to fall within the parameters of PL 101-601. Sixteen Native American organizations were notified about relevant objects in the collection and 10 tribes have responded. As of December 1994, no Native American organizations have formally requested repatriation of these objects.

PROFESSIONAL ACTIVITIES

In addition to responsibilities involving collections management, the staff of the Collections Management Branch participated in educational activities, professional meetings, public lectures, and forensic anthropological projects and supported the Office of the Armed Forces Medical Examiner (OAFME).

Staff Development: In 1994, Dr. Anthony Falsetti joined the staff to develop a research program in human biology that includes anthropometry, growth studies, and biostatistics; he also will support collaborative forensic anthropology activities with OAFME. In May, Ms. Willcox began an extended leave of absence to complete research on her dissertation and Ms. LeGrande resigned her position to join her husband in England.

Exhibit Support: Research support and artifacts from the collections were provided for "Human Body/Human Being" (Phase 2), "Living in a World with AIDS" (scheduled to open in 1995), and "Closing in on Cancer" (scheduled to open in 1995).

Education: The Seventh Annual NMHM/AFIP Forensic Anthropology Course was held at the Uniformed Services University of the Health Sciences (USUHS) in Bethesda, Md. Mr. Sledzik and Dr. Falsetti were course directors.

Mr. Sledzik continues to serve on the advisory committee for an NSF- and FIPSE-funded project entitled "Classroom and Laboratory Use of Computer-Based Multimedia Simulations in Skeletal Biology," through the Department of Anthropology, Cleveland State University.

Forensic Anthropology Support: Mr. Sledzik and Dr. Falsetti provided support through the National Disaster Medical System of the Public Health Service to coordinate and conduct the anthropological analysis and identification effort for over 400 human remains from a flooded cemetery in Albany, Georgia.

Mr. Sledzik worked with OAFME staff in the anthropological analysis of remains from the crash of US Air 427 near Pittsburgh. Dr. Falsetti worked with OAFME in the anthropological analysis of remains from the crash of American Eagle 4184 near Roselawn, Indiana.

Mr. Sledzik lectured at the Mass Fatality Incident Response Train-the-Trainer Course at the Emergency Management Institute, Federal Emergency Management Agency (Frederick, Md.). This is part of a continuing effort to promote the role of forensic anthropology in mass fatality incidents.

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Plastination Laboratory: The departure of Yvette LeGrande coincided with the anticipated closure of the Plastination Laboratory. The laboratory is to be moved to the Gaithersburg facility and should be operational in 1995. Prior to leaving, Ms. LeGrande completed plastination projects for USUHS and the Department of Anesthesiology at the Hartford Hospital (Hartford, Conn.).

Institutional Collaborations: Consultations conducted by branch staff included: Col Ronald Bellamy, Borden Institute (WRAMC); Walter Bradford, U.S. Army Center for Military History (Washington, D.C.); Claire Cronin, U.S. Holocaust Memorial Museum (Washington, D.C.); David B. Driscoll, State Historical Society of Wisconsin (Madison, Wis.); James Edmonson, Dittrick Museum of Historical Medicine (Cleveland, Ohio); Sara Feldbauer, Historic Charlton Park Village and Museum; Dorothy A. Pope, Newnan-Coweta Historical Society; Stephanie Przybylek, Cayuga Museum (N.Y.); and Bernadette Rogoff, Monmouth County Historical Association (N.J.).

Television Documentaries: Several artifacts from the Museum's collections were filmed for television documentaries. Set Productions filmed seven German World War II medical instruments for the upcoming documentary "Josef Mengele - The Final Account." TV Asahi filmed a syringe for a documentary about the injection of plutonium into American citizens by scientists during the late 1940s. The Anatomical Collections were featured on "Civil War Journal" (Arts and Entertainment Channel) in a program on Civil War Medicine.

PUBLIC PRESENTATIONS

1. "Vampires, Tuberculosis and Medical Folklore," Infectious Disease Course, Armed Forces Institute of Pathology, Paul Sledzik.
2. "The Physical Anthropology of the St. Mary's City Burials," Mid-Atlantic Archeological Conference, Ocean City, Maryland, Paul Sledzik.
3. "Historic Puzzles and Modern Crimes," Johns Hopkins University, School of Continuing Studies, lecture series entitled "The Dead Do Tell Tales: Forensic Science and the Solving of Mysteries," Baltimore, Maryland, Paul Sledzik.
4. "New England Vampires," Rhode Island Museum of Natural History, Roger Williams Park, Providence, Rhode Island, Paul Sledzik.
5. "The Dead Do Tell Tales: Vampires, Coffins, and Skeletons," Connecticut State Museum of Natural History, Storrs, Connecticut, Paul Sledzik.
6. "Mummies," Resident Associate Program, Smithsonian Institution, Allison Webb Willcox.
7. "Vampires," Resident Associate Program, Smithsonian Institution, Paul Sledzik.

In addition, Mr. Sledzik made presentations for various tour groups at the NMHM and at 10 local schools.

PROFESSIONAL PRESENTATIONS

1. February 1994: San Antonio, Texas, American Academy of Forensic Sciences Annual Meeting, "American Vampires: The Truth Behind the Fiction," Paul Sledzik.
2. February 1994: San Antonio, Texas, American Academy of Forensic Sciences Annual Meeting, "Anthropological Examination of the Air Crash Victims of the 1991 Conoco Mishap— Borneo, Malaysia," William C. Rodriguez and Paul S. Sledzik.
3. May 1994: Washington, D.C., Neuroscience Society, "A History of Neurosciences at the National Museum of Health and Medicine," Alan Hawk and Adrienne Noe.

SCIENTIFIC POSTER SESSION

March 1994: Denver, Colorado, Human Biology Council Annual Meeting, "The Steggerda Human Biology Collection: An Overview," Paul S. Sledzik, Allison Webb Willcox, and Anthony B. Falsetti.

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PUBLICATIONS

1. Sledzik PS, Bellantoni N. Archeological and biocultural evidence for the New England vampire belief. *Am J Phys Anthropol.* 1994;94:269-274.
2. Kelley MA, Levesque DR, Murphy SP, Sledzik PS. Respiratory disease among early historic plains Indians. In: Owsley DW, Jantz RL, eds. *Skeletal Biology of the Great Plains: Migration, Warfare, Health, and Subsistence*. Washington, DC: Smithsonian Institution Press; 1994:123-130.

OTIS HISTORICAL ARCHIVES

MISSION/ORGANIZATION

The mission of the Otis Historical Archives is to support the research and interpretive activities of the Museum by collecting, cataloging, and storing manuscripts, books, photographs, prints, paintings, and ephemera. High priority is placed on promoting scholarly research on the holdings, including the preparation and publication of finding aids, and in supporting the Museum's exhibition and public program activities. The archives also serves as the archival unit of the Armed Forces Institute of Pathology.

STAFF

Michael Rhode, Archivist
Joan Redding, Assistant Archivist

RESEARCH REQUESTS

The Otis Historical Archives (OHA) received approximately 165 requests for information this year, not including Museum and AFIP requests, visitors, or referrals to other institutions. The number of requests increased slightly from last year and included several inquiries through the Institute's new Internet access. Researchers were affiliated with the Mutter Museum, the American Social Health Association, the National Library of Medicine, the SUNY Health Science Center, the US Army Center for Military History, American University, NOVA, the Department of Energy, the Holocaust Museum, the National Park Service, and the National Museum of Civil War Medicine, among other institutions.

The 50th anniversary of the atomic bombing of Hiroshima and Nagasaki brought interest in OTA's Atomic Bomb Material. Researchers representing Japan's Tokyo Broadcasting and Kyoto News Service used the collection, as did staff from the National Air and Space Museum, who were collecting material for their exhibit on the bombing. The Nagasaki Broadcasting Company filmed Rhode explaining the bomb-proof features of the AFIP building. The archives also provided several photographs for the "Science in American Life" exhibit at the National Museum of American History. The Vorwald Collection of industrial medicine material continued to receive heavy use, primarily by law firms. A graduate student at Harvard's History of Science Department, Lisa Herschbach, spent several days at the archives studying early Museum records for her dissertation.

OTA staff revised and expanded the Museum's fee schedule, designing a standard form to be used for all research requests. A form letter referring researchers to other institutions, detailing their holdings, and providing addresses and phone numbers was prepared, as was a detailed bibliography of published sources on Civil War medicine, which will be supplied to researchers.

COLLECTIONS MANAGEMENT

Acquisitions: Collecting continued to increase this year. Major acquisitions include 60 cubic feet of pathological reports from Gorgas Hospital in Panama and 18 cubic feet of personal papers of Dr. Loren Ackerman, the author of the standard textbook on pathology. The archives received the papers of AIDS victim Ron Wogaman, which document his illness and death. These were used extensively in the Museum's new AIDS exhibit. Another acquisition was a 1944 painting by WPA artist Jack McMillen showing psychiatric patients at WRAMC's Forest Glen Annex in World War II. Already damaged by water leaking from the roof, the painting was in danger of destruction had it remained in an unstable building at the annex. Archives staff removed the painting and procured funding for its restoration. Now restored to its original state, the painting is on exhibit in Silliphant Hall. A donated scrapbook belonging to a nurse who served at Walter Reed during World War I added to the archives holdings on the history of nursing and WRAMC. Many small donations of books, posters, pamphlets, trade literature, and photographs (especially of AIDS material) added to the overall collection.

Transfers: A group of 178 films were transferred to The Library of Congress in March. These were nonmedical historical films and fell outside the Museum's collecting scope.

Archival Finding Aids: The computerized inventory and finding aid project, started in 1989, continued and is finally approaching completion. Redding has been editing a version of the inventory for eventual publication. It is anticipated that publication of this "Guide to the Otis Historical Archives" will make the rich history contained in these collections much more widely available. An updated and simplified third edition of the *Index to Photographs of Surgical Cases and Specimens and Surgical Photographs* was issued in January. This index lists 400 of the Museum's Civil War photographs.

Finding aids were prepared for the Wogaman Collection, a collection of AIDS-related medical records and ephemera, and Military Hospital Material, an artificial collection of related documents. Other collections to be processed, rearranged, and rehoused included the Atomic Bomb Material, Medical Ephemera, New Contributed Photographs, AFIP Historical Files, General Medical Products Information Collection, and numerous lantern slides.

Audiovisual Collection: Dana Le Master, a DoD Science & Engineering Apprentice Program student, worked on basic cataloging of the videotapes in the NMHM Audiovisual Collection. She completed the cataloging of the modern-era videotapes, leaving only the historical 16mm films to be done. She also helped arrange and prepare a finding aid for the Medical Ephemera collection.

Conservation: Several paintings in the archives' holdings were professionally conserved. Portraits of William A. Hammond, Joseph K. Barnes, George Otis, Mary Walker, and Ambrose Pare, as well as the McMillan painting of Forest Glen, were each treated by Page Conservation.

EXHIBIT SUPPORT

Rhode expanded the "Civil War Medical Illustration" exhibit that had been shown at the Pentagon several years ago; this installation opened to the public in December. The OTA's collection of 1992 competition winners from the American Society of Clinical Pathologists were framed and placed on exhibit. The staff contributed text, research, and editorial assistance to the Museum's exhibition program.

SPECIAL PROJECTS

AFIP Oral History Project: The AFIP Oral History continued with Dr. C. Stuart Kennedy of the Foreign Affairs Oral History Program at Georgetown University conducting interviews of Drs. Vernon Armbrustmacher, William R. Cowan, Richard Froede, Kamal G. Ishak, Donald King, John Madewell, Marc Micozzi, Florabel Mullick, and Charles Stahl. Most of the interviews were filmed by WRAMC-TV and are available as transcripts or videotapes. A finding aid is now available for re-

search. Groundwork also was laid to begin work on a history of the AFIP during the past 50 years to complement Robert Henry's account.

Public Outreach: Several outreach programs were done this year in an attempt to expand public knowledge of the archives. "Fight Syphilis" and "Know For Sure," two 1940s public health films, were provided to the Public Programs Division for a showing in December. Unlabeled photographs were hung outside the cafeteria for AFIP staff assistance in identifying them. Announcements of activities were made on the Institute's electronic bulletin board. As a member of the Steering Committee of the District of Columbia Picture Group, Rhode organized meetings, maintained the group's membership data base, and presented a lecture drawn from the Museum's photographic holdings.

PRESENTATION

February 15, 1994: "Photography and the Army Medical Museum, 1862-1945," District of Columbia Picture Group (Washington, D.C.), Michael Rhode.

DIVISION OF RESEARCH AND DEVELOPMENT

MISSION/ORGANIZATION

The division encompasses the Human Developmental Anatomy Center, including the Carnegie and Yakovlev-Haleem Collections. Principal areas of investigation are embriology and neuropathology, with a focus on using high-resolution computer technologies that offer new insights into the division's holdings.

STAFF

Adrienne Noe, Ph.D., Assistant Director, Division of Research and Development
Elizabeth Lockett, B.A., Imaging Specialist
William F. Discher, B.A., Imaging Technician
Mohamad Haleem, Curator, Yakovlev-Haleem Collection (Deceased, 1994)

The Division of Research and Development comprises the Human Developmental Anatomy Center and the Yakovlev-Haleem Neuroanatomy Collections. It coordinates the National Museum of Health and Medicine's high-performance computing activities. Throughout the year, the division has continued to expand its collections in order to organize and bring together several of the world's major human and comparative developmental collections as well as neuroanatomy materials with facilities to support research on holdings at the Museum and the Institute. While the Carnegie Human Embryology Collection remains the core of Anatomy Center holdings, several significant sets of serial sections have been added, including private collections from Europe and the United States. The staff of the University of California at Davis completed the transfer of several hundred unsectioned human embryos, and these materials have been integrated into the serially sectioned holdings and will be used as part of a multi-institutional imaging research protocol.

The center continues to be an active research site. Forty-six researchers used materials housed in the collections in 1994 for projects ranging from 1 day to 3 month's duration. In scope, the subject matters continue to include embryo studies in preparation for in-utero surgical procedures, organogenesis and structural spatial translation, and descriptive anatomical studies. Newly acquired and improved research technologies included several items of sophisticated and high-performance

2. March 1994: Noe A (coordinator and chair). The Human Developmental Anatomy Center and the National Museum of Health and Medicine Workshop. Society for Pediatric Pathology, San Francisco.
3. April 1994: Noe A. Research at the National Museum of Health and Medicine. Washington, D.C., area Medical Students Association, Washington.
4. May 1994: Noe A. Developmental Neuroanatomy. WRAMC Spring Symposium: Molecular Dysmorphology of Holoprosencephaly, Washington.
5. May 1994: Noe A. Aviation Medical History Review Panel. Aerospace Medical Association Annual Meeting, San Antonio.
6. May 1994: Noe A and Hawk A. History of Neurosciences at the National Museum of Health and Medicine. Neuroscience Society, Washington.
7. June 1994: Noe A. Neuroanatomy and Research, Armed Forces Institute of Pathology. Human Brain Project Annual Meeting, National Institutes of Health, Bethesda, Md.
8. June 1994; Noe A. Serial Section Based Imaging of the Human Embryo. National Institute for Child Health and Human Development, NIH Imaging Conference, Rockville, Md.
9. June 1994: Noe A. Historical Activities and Contemporary Research: A Look at the National Museum of Health and Medicine. American Medical Women's Association Annual Meeting, Alexandria, Va.
10. June 1994: Noe A. High-Performance Computing and Imaging Research, National Museum of Health and Medicine, Armed Forces Institute of Pathology. Biomedical Technology Working Group and Conference, Eglin AFB.
11. November 1994: Noe A, Discher W, and Lockett E. The Human Developmental Anatomy Center and its High-Performance Computing Activities. Silicon Graphics Imaging Working Group, Washington.

PUBLICATION

Noe A. "Serial Sections and Human Embryology: A New Research Initiative." *International Imaging*. (forthcoming)

SUMMARY OF STAFF PUBLICATIONS, 1994

1. Bayer MH, Kaiser HE, Micozzi M. Abnormal growth process in plants and animals: a comparison. *In Vivo: International Journal of Anti-Cancer Research*. 1994;8:3-16.
2. Goler R, ed. 'What About AIDS?' In: Workshop Proceedings. Donders L, Lorton L, compilers. Washington, DC; 1994.
3. Kelley MA, Levesque DR, Murphy SP, Sledzik PS. Respiratory disease among early historic plains Indians. In: Owsley DW, Jantz RL, eds. *Skeletal Biology of the Great Plains: Migration, Warfare, Health, and Subsistence*. Washington, DC: Smithsonian Institution Press; 1994:123-130.
4. Levinson R. Medical museum aims to increase public's understanding of pathology. *CAP Today*. December 1994:44.
5. Sledzik PS, Bellantoni N. Archeological and biocultural evidence for the New England vampire belief. *Am J Phys Anthropol*. 1994;94:269-274.
6. Stevens RL, Graubard BR, Micozzi MS, Neriishi K, Blumberg BS. Moderate elevation of body iron level and increased risk of cancer occurrence and death. *Int J Cancer Res*. 1994;56:364-369.

In addition, two books are in press, and one article is forthcoming.